PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 62475A	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2004/043463	International filing date (day/month/year) 22 December 2004 (22.12.2004)	Priority date (day/month/year) 23 December 2003 (23.12.2003)	
International Patent Classification (8t) See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237		
Applicant DOW GLOBAL TECHNOLOGIES	INC.		

1.	 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a). 		
2.	This REPORT consists of a total of 5 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.		
3.	3. This report contains indications relating to the following items:		
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opini applicability	ion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under applicability; citations and	Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the intern	national application .
	Box No. VIII	Certain observations on the	international application
4.	The International Bureau will connot, except where the applicant mate (Rule 44bis .2).	nmunicate this report to designakes an express request unde	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but or Article 23(2), before the expiration of 30 months from the priority
			Date of issuance of this report 26 June 2006 (26.06.2006)
The International Bureau of WIPO			Authorized officer
34, chemin des Colombettes 1211 Geneva 20, Switzerland			Dorothée Mülhausen
	Facsimile No. +41 22 338 82 70 e-mail: pt01@wipo.int		
Form I	Form PCT/IB/373 (January 2004)		

PATENT COOPERATION TREATY

REC'D 1 9 MAY 2005

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From the INTERNATIONAL SEARCHING AUTHORITY

C08G18/50, C08G18/48, C08G65/333

DOW GLOBAL TECHNOLOGIES INC.

Applicant

POT

To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY see form PCT/ISA/220 (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below see form PCT/ISA/220 Priority date (day/month/year) International filing date (day/month/year) International application No. 23.12.2003 22.12.2004 PCT/US2004/043463 International Patent Classification (IPC) or both national classification and IPC

1.	This opinion co	s opinion contains indications relating to the following items:		
	⊠ Box No. I	Basis of the opinion		
	☐ Box No. II	Priority Linduction and Compliance of the Compli		
	☐ Box No. III	Non-establishment of opinion with regard to novelty, Inventive step and industrial applicability		
	☐ Box No. IV	Lack of unity of invention		
	☑ Box No. V	Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	☐ Box No. VI	Certain documents cited		
	☐ Box No. VII	Certain defects in the international application		
	☐ Box No. VIII	Certain observations on the international application		
2.	FURTHER ACT	ION		
	written opinion o	international preliminary examination is made, this opinion will usually be considered to be a of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where coses an Authority other than this one to be the IPEA and the chosen IPEA has notified the reau under Rule 66.1 bis(b) that written opinions of this International Searching Authority onsidered.		
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is inv submit to the IPEA a written reply together, where appropriate, with amendments, before the expiratio months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the p whichever expires later.			
	For further option	r further options, see Form PCT/ISA/220.		
3.	For further details, see notes to Form PCT/ISA/220.			

Name and mailing address of the ISA:

Authorized Officer



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

1.

International application No. PCT/US2004/043463

	Box N		Basis of the opinion
1.	the la	ngua	I to the language , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.
	la (t	angua under	Rules 12.3 and 23.1(b)).
2.	With neces	regar ssary	d to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. typ	e of r	naterial:
		as	equence listing
		tat	ole(s) related to the sequence listing
	b. for	rmat o	of material:
] in	written format
] in	computer readable form
	c. tim	ne of	filing/furnishing:
			ntained in the international application as filed.
] file	ed together with the international application in computer readable form.
) fu	rnished subsequently to this Authority for the purposes of search.
3		has b	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as opriate, were furnished.
4	4. Add	litiona	I comments:

Box No. V Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or Industrial applicability; citations and explanations supporting such statement

1. Statement

>

Novelty (N)

Yes: Claims

1-17

Claims No:

Yes: Claims

1-17

Inventive step (IS)

Claims No:

Industrial applicability (IA)

Yes: Claims

1-17

Claims No:

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING **AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2004/043463

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty: None of the cited documents discloses a process for polyurethane manufacture using polyol mixtures comprising autocatalytic, tertiary amine end capped polyols. Autocatalytic amino polyols of the prior art (e.g.wo03/016372 or wo03/029320) are prepared via alkoxylation of adequate amine or aminoalcohol initiators. The amino functionality in these cases is in chain and not a chain terminal, as in the present case. Therefore, the claimed subject matter is considered novel (Article 33,2 PCT).

Inventive step; WO03/016372 is considered to represent the closest prior art. It relates to the preparation of flexible polyurethane foams wherein the reactivity can be controlled by the addition of autocatalytic polyols containing tertiary amine functionality. These autocatalytic aminopolyols are manufactured via alkoxylation of appropriate initiators. This process provides autocatalytic polyols having in chain tertiary amino functionality and no terminal tertiary amine groups.

Object of the application is to provide an alternative process for polyurethane manufacture which can reduce or eliminate the amount of fugitive amine catalysts and/or organometallic salts used in producing polyurethanes. The provided examples support the effectivity of tertiary amine end capped polyols as autocatalytic polyols which allow to reduce conventional catalysts in polyurethane product manufacture. This can account for inventive step (Article 33,3 PCT).

Industrial applicability: no objection.